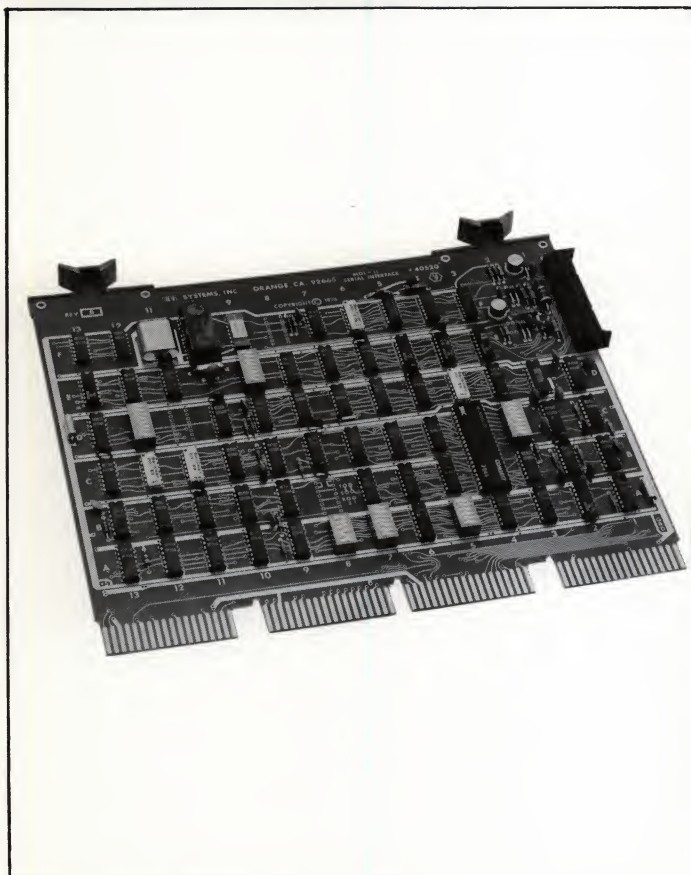


MDB

MDL-11 ASYNCHRONOUS SERIAL LINE ADAPTER for use with PDP*-11 Computers



MDB Systems Asynchronous Serial Line Adapter for PDP-11* Computers

- Single asynchronous serial line interface
- Full duplex or half duplex operation
- 16 standard baud rates; from 50 to 19.2 K baud
- EIA RS232C and 20ma active current loop interface
- Compatible with DEC operating and diagnostic software
- Incorporates the DEC DL11-A, B, C, D, E features on a single board; switch selectable convenience
- Separate transmitter and receiver rates; switch selectable convenience

- Standard vectored interrupts; switch selectable convenience
- Standard DEC command and status register and data buffer mechanization
- Pin-for-pin compatible with DEC DL-11 cable assemblies

The MDB Systems MDL-11 combines on a single board all the operational features of the DEC DL11-A, B, C, D, E modules. Selection of any one of the five operational modes is easily accomplished through P-C mounted switches.

Additional standard MDL-11 functions include switch selectable address, interrupt vector, switch selectable transmitter and receiver clock sources and baud rates.

The MDL-11 interface module permits direct communication between PDP-11 computers and terminals or modems. The modem interface circuit adapts the MDL-11 module to a wide selection of dataset types; and full dataset control is standard with the MDB MDL-11 module.

A 20ma active current loop interface to teletype-writer terminal operation is a standard feature of the MDL-11, as well as EIA RS232C interface drivers and receivers for local or remote terminals.

Receiver circuits perform serial-to-parallel conversion per user selected character length via P-C mounted switches and the transmitter circuit performs parallel-to-serial conversion using standard bit-serial data format. The MDB MDL-11 module provides standard vector interrupt operation with separate interrupt channels for receiver and transmitter functions. Even though the channels are independent, the MDL-11 will assign the receiver function priority in the event of simultaneous interrupts.

Adding practicality to convenience, the MDL-11 module provides the +12vdc necessary to operate the baud rate generator and EIA drivers, thus eliminating the need for external power conversion modules.

The board comes with a 25 foot EIA or a 2 foot current loop cable with mating connectors for connection data sets or DEC terminals.

ELECTRICAL REQUIREMENTS:

- +5V at 3.5A; -15V at .015A

PHYSICAL:

- Occupies one quad slot of standard system unit

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